

**Pre. Ph.D. Course Work (2017 Course) : SUMMER - 2018**

**(Orthodontics and Dentofacial Orthopedics)**

**SUBJECT: PAPER – I RESEARCH METHODOLOGY & ICT FOR RESEARCH  
(ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS)**

Day: **Monday**  
Date: **25/06/2018**

**S-2018-4742**

Time: **10.00 AM TO 01.00 PM**

Max. Marks: 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Each question carries **20** marks.

**Q.1** Do the important steps in Research change from domain to domain? Comment on their importance in Dental Research. **(20)**

**OR**

**Q.1** What is the significance of Review of Literature as foundation for future research? **(20)**

**Q.2** How do you identify Research problem in Dental Science. Explain the same with its logical reasoning **(20)**

**OR**

**Q.2** What is Research Design? What care is required to be taken in framing Research Design? Illustrate with suitable examples. **(20)**

**Q.3** Name and Describe Computer Software used in presentation of data and Regression analysis. **(20)**

**OR**

**Q.3** Write essay on Ethical practices to be adopted in Dental Research. **(20)**

**Q.4** 'Online Survey' is a very popular concept. Discuss how to go about and comment on acceptability of results obtained by online survey. **(20)**

**OR**

**Q.4** Comment on how the following tools can be effectively used while conducting a research project: - a) Spread Sheets b) Presentation Tools. c) Internet. **(20)**

**Q.5** When would a researcher be using 'Anova'? Highlight the importance of concept 'Level of significance', 'degrees of freedom' and 'Factors'. **(20)**

**OR**

**Q.5** Describe the process of 'Testing of Hypothesis' in general. Comment on the 'need for testing of hypothesis in scientific research. **(20)**

\*\*\*\*\*